## Quantitative Aptitude

Directions (Q. 1-10): What should come in place of the question mark (?) in the following questions?

1. $(6)^{3} \times(9)^{2} \div 18=$ ?
a) 1458
b) 972
c) 8748
d) 162
e) None of these
2. $\sqrt[3]{941192}=$ ?
a) 101
b) 98
c) 96
d) 99
e) None of these
3. $999 \times 99 \times 9=$ ?
a) 891009
b) 890019
c) 890190
d) 890109
e) None of these
4. $7410+$ ? 3652 回 $1479=11820$
a) 9451
b) 9527
c) 9441
d) 9541
e) None of these
5. $32 \%$ of $860 \times ?=61920$
a) 252
b) 255
c) 215
d) 205
e) None of these
6. $963 \times 874=$ ?
a) 840788
b) 843588
c) 839736
d) 842536
e) None of these
7. $\sqrt{12544} \div 64 \times ?=43.75$
a) 30
b) 15
c) 25
d) 40
e) None of these
8. $444 \div(16 \times 1.5)=$ ?
a) 41.625
b) 222
c) 18.5
d) 185
e) None of these
9. $(16)^{9} \div(16)^{4} \times(16)^{3}=(16)^{?}$
a) 6.75
b) 8
c) 10
d) 12
e) None of these
10. $0.08 \times ? \times 2.5=1.12$
a) 6.5
b) 6.6
c) 5.5
d) 5.6
e) None of these
11. The population of a town is 198000. It increases by $7 \%$ in the $1^{\text {st }}$ year and decreases by $5 \%$ in the $2^{\text {nd }}$ year. What is the population of the town at the end of 2 years? What is the population of the town at the end of 2 years?
a) 211860
b) 201267
c) 222453
d) 198900
e) None of these
12. What should come in place of the question mark (?) in the following number series?

3713 ? 3143
a) 18
b) 19
c) 23
d) 21
e) None of these
13. If $x+y=20$ and $x y=84$; what is the value of $x^{2}+y^{2}$ ?
a) 232
b) 400
c) 128
d) Cannot be determined
e) None of these
14. In how many different ways can the letters of the word 'ABILITY' be arranged?
a) 5040
b) 720
c) 1260
d) 2420
e) None of these
15. The difference between a two digit number and the number obtained by interchanging two digits of the number is 9 . The sum of the two digits of the number is 15 . What is the product of two digits of two digit number?
a) 54
b) 72
c) 56
d) Can't be determined
e) None of these

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16. Vinita bought a watch with $24 \%$ discount on the selling price. If the watch cost her Rs. 779 . What is the original selling price of the watch?
a) Rs. 1000
b) Rs. 950
c) Rs. 1040
d) Can't be determined
e) None of these
17. Shyam invests an amount of Rs. 5690 at the rate of $5 \%$ per annum for 3 years. What approximate amount of compound interest will be obtain at the end of 3 years?
a) Rs. 854
b) Rs. 799
c) Rs. 843
d) Rs. 787
e) Rs. 897
18. Samantha, Jessica and Roseline begin to job around a circular stadium. They complete their revolutions in $84 \mathrm{~s}, 56 \mathrm{~s}$ and 63 s respectively. After how many seconds will they be together at the starting point?
a) 336
b) 504
c) 252
d) Can't be determined
e) None of these
19. Asmita invests an amount of Rs. 9535 at the rate of $4 \%$ per annumm to obtain a total amount of Rs. 11442 on simple interest after a certain period. For how many years did she invest the amount to obtain the total sum?
a) 10 years
b) 2 years
c) 5 years
d) 4 years
e) None of these
20. The cost of 13 kg of sugar is Rs.195. The cost of 17 kg of rice is Rs. 544 and the cost of 21 kg of wheat is Rs.336. What is the total cost of 21 kg of sugar, 26 kg of rice and 19 kg of wheat?
a) Rs. 1461
b) Rs. 1306
c) Rs. 1500
d) Rs. 1636
e) None of these
21. What approximate value should come in place of the question mark (?) in the following question?
$\sqrt{876} \times 20.6+165.34=$ ?
a) 700
b) 686
c) 775
d) 846
e) 745
22. The product of two consecutive even numbers is 16128 . Which is $t$ he larger number?
a) 132
b) 128
c) 124
d) 126
e) None of these
23. A sum of money is to be divided equally amongst $A, B$ and $C$ in the respective ratio of $3: 4$ : 5 and another sum of money is to be divided between E and F equally. If F got Rs. 1050 less than A, how much amount did B receive?
a) Rs. 750
b) Rs. 2000
c) Rs. 1500
d) Can't be determined
e) None of these
24. Find the average of the following sets of scores.
$178,863,441,626,205,349,462,820$
a) 505
b) 441
c) 349
d) 493
e) None of these
25. The difference between $38 \%$ of a number and $24 \%$ of the same number is 135.10 . What is $40 \%$ of that number?
a) 394
b) 370
c) 378
d) 386
e) None of these
26. 16 men can complete a piece of work in 8 days. In how many days can 12 men complete the same piece of work?
a) 10
b) $9-1 / 3$
c) $10-2 / 3$
d) Can't be determined e) None of these
27. Kishan has some hens and some cows. If the total number of animal heads are 59 and the total number of feet are 190 . How many cows does Kishan have?
a) 36
b) 32
c) 23
d) Can't be determined e) None of these
28. If the numerator of a fraction is increased by $200 \%$ and the denominator is increased by $160 \%$, the resultant fraction is $7 / 13$. What is the original fraction?
a) $7 / 15$
b) $2 / 15$
c) $8 / 15$
d) $5 / 7$
e) None of these
29. If $41^{2}$ is added to the square of a number the answer, so obtained is 7457 . What is the number?
a) 76
b) 63
c) 81
d) 82
e) None of these
30. What is the least number to be added to 4700 to make it a perfect square?
a) 74
b) 69
c) 76
d) 61
e) None of these

Directions (Q. 31-35): Study the graph carefully to answer the questions that follow:
Number of girls enrolled in different hobby classes in various institutes in a year

31. What is the respective ratio of total number of girls enrolled in Painting in the Institutes A and C together to those enrolled in Stitching in the Institutes D and E together?
a) $5: 4$
b) $5: 7$
c) $16: 23$
d) $9: 8$
e) None of these
32. Number of girls enrolled in Stitching in Institute B forms approximately, what percent of the total number of girls enrolled in Stitching in all the Institutes together?
a) 29
b) 21
c) 33
d) 37
e) 45
33. What is the respective ratio of total number of girls enrolled in Painting, Stitching and Dancing from all the Institutes together?
a) $44: 48: 47$
b) $43: 47: 48$
c) $44: 47: 48$
d) $47: 48: 44$
e) None of these
34. Number of girls enrolled in Dancing in Institute A forms, what percent of total number of girls enrolled in all the hobby classes together in that institute? (Rounded off to two digits after decimal)
a) 23.87
b) 17.76
c) 31.23
d) 33.97
e) 20.69
35. What is the total number of girls enrolled in Painting from all the institutes together?
a) 1150
b) 1200
c) 1275
d) 1100
e) None of these

## Reasoning Ability

36. If CGKQW is one sequence following a logic and another five letter sequence following similar type of logic is BFJPV, then one more variation of this type can be
a) CFKNT
b) DHLRX
c) VPJFB
d) Can't be determined
e) None of these
37. If LMN is to ZYX and EFG is to DCB , then RST is to
a) WVU
b) ORO
c) KJI
d) Can't be determined
e) None of these
38. Which of the following has the same relationship as that of JL:KM?
a) RT:UV
b) EF:GH
c) $\mathrm{CE}: \mathrm{DB}$
d) Can't be determined
e) None of these
39. Four of the following five are alike in a certain way and so from a group. Which is the one that does not belong to the group?
a) LOJ
b) FID
c) RUP
d) ILN
e) CFA
40. Which of the following will be the next letter in the following letter series?
$\begin{array}{llll}B & C & E & H\end{array}$
L
c) O
a) Q
b) $P$
d) Can't be determined
e) None of these

Directions (Q. 41-50) In each question below are either two or three statements followed by two conclusions I and II. You have to take the two or three given statements to be true and then decide which of the given conclusions logically follows from the two/three given statements, disregarding the commonly known facts.

Give answer
a) If only conclusion I follows
b) If only conclusion II follows
c) If either conclusion I or II follows
d) If neither conclusion I nor II follows
e) If both conclusions I and II follow

| 41. Statements: | No table is wood. <br> Some woods are chairs. <br> All chairs are stones. |
| ---: | :--- |
| Conclusions: | I. No stone is table. <br> II. Some stones are woods. |
| 42. Statements: | All letters are black. <br> All black are blue. |
| Conclusions: | No blue is green. <br> I. No letter is green. <br> II. Most blue are black. |
| 43. Statements: | Some fruits are mangoes. <br> Some mangoes are red. <br> All red are vegetables. |
|  |  |

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| Conclusions: | I. No fruit is red. <br> II. Some fruits are red. |
| :---: | :---: |
| 44. Statements: | Some eyes are ears. <br> Some ears are hands. |
| Conclusions: | I. No hand is an eye. <br> II. Some eyes are hands. |
| 45. Statements: | Some books are pens. Some pens are pencils. Some pencils are buttons. |
| Conclusions: | I. Some buttons are pens. <br> II. Some pencils are books. |
| 46. Statements: | Some caps are shirts. All shirts are papers. |
| Conclusions: | I. All shirts which are caps are papers. II. Some shirts are caps. |
| 47. Statements: pens. | 10\% shoes are chappals. $5 \%$ chappals are papers. $99 \%$ papers are |
| Conclusions: | I. Some shoes are papers. <br> II. Some shoes are pens. |
| 48. Statements: | All A are Z . |
|  | All Z are X . |
|  | All Y are A. |
| Conclusions: | I. All A are Y. |
|  | II. All Y are X. |
| 49. Statements: | Some water is cold. |
|  | No cold is milk. |
|  | Some milk is water. |
| Conclusions: | I. Some water that is cold is milk. |
|  | II. Some milk that is water is cold. |
| 50. Statements: | Some waste is white. |
|  | Some white is water. |
|  | Some water is waste. |
| Conclusions: | I. Some waste which is white is water. <br> II Some water is neither waste nor white. |

51. 'Nail' is related to 'Nail-cutter' in the same way as 'Hair' is related to $\qquad$
a) oil
b) comb
c) scissors
d) hair-cut
e) colour
52. Madhu said, "My mother's only son Ashok has no son". Which of the following can be concluded?
a) Ashok has only daughters
b) Ashok is not married
c) Ashok does not have a father
d) Ashok has only one sister
e) None of these
53. Which of the following must be there to call something a 'Song'?

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a) Musical instruments
b) Classical singer
c) Words
d) Film
e) Drama
54. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
a) Brother
b) Grand father
c) Mother
d) Grand mother
e) Father
55. Four of the following five pairs are alike in a certain way and so form a group. Which is the one that does not belong to that group?
a) RICE:ECIR
b) WINGS:SGNIW
c) SMART:RTSMA
d) COUSIN:SINCOU
e) BRAKE:AKRFB

Directions (Q. 56-60) Study the following information to answerr the given questions.
(A) Six plays are to be organized from Monday to Sunday-One play each day with one day when there is no play. 'No play' day is not Monday or Sunday.
(B) The plays are held in sets of 3 plays each in such a way that 3 plays are held without any break i.e., 3 plays are held in such a way, that there is no 'No play' day between them but immediately before this set or immediately after this set it is 'No play' day.
(C) Play Z is held on $26^{\text {th }}$ and play X was held on $31^{\text {st }}$ of the same month.
(D) Play B was not held immediately after play A (but was held after A, not necessarily immediately) and play $M$ was held immediately before Q'.
(E) All the six plays were held in the same month.
56. Which play was organized on Monday?
a) Z
b) M
c) $Q$
d) Can't be determined
e) None of these
57. Which day was play Z organized?
a) Tuesday
b) Monday
c) Wednesday
d) Can't be determined
e) None of these
58. Which date was a 'No play' day?
a) $26^{\text {th }}$
b) $28^{\text {th }}$
c) $29^{\text {th }}$
d) Can't be determined
e)
59. Which of the following is true?
a) Play B is held immediately before play M
b) Play Z is held after play $B$
c) There was a gap after 2 plays and then 4 plays were organized
d) First play was organized on $25^{\text {th }}$
e) Play B was held on Friday
60. Which day was play Q organized?
a) Friday
b) Wednesday
d) Can't be determined
e) None of these
c) Saturday

Directions (Q. 61-65) Study the following information to answer the given questions.
(i) In a family of 6 persons, there are two couples.
(ii) The Lawyer is the head of the family and has only two sons-Mukesh and Rakesh-both Teachers
(iii) Mrs.Reena and her mother-in-law both are Lawyers
(iv) Mukesh's wife is a Doctor and they have a son, Ajay.
61. Which of the following is definitely a couple?
a) Lawyer-Teacher
b) Doctor-Lawyer
c) Teacher-Teacher
d) Can't be determined
e) None of these
62. What is the profession of Rakesh's wife?
a) Teacher
b) Doctor
c) Lawyer
d) Can't be determined
e) None of these
63. How many male members are there in the family?
a) Two
b) Three
c) Four
d) Can't be determined
e) None of these
64. What is/was Ajay's Grandfather's occupation?
a) Teacher
b) Lawyer
d) Can't be determined
e) None of these
c) Doctor
65. What is the profession of Ajay?
a) Teacher
b) Lawyer
c) Doctor
d) Can't be determined
e) None of these

Directions (Q. 66-70) In each question below, is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (a) if only assumption I is implicit
Give answer (b) if only assumption II is implicit
Give answer (c) if either assumption I or II is implicit
Give answer (d) if neither assumption I nor II is implicit
Give answer (e) if both assumptions I and II are implicit
66. Statement: Please send an official letter rather than semi-official on this subject this time. Assumptions:
I. The format and emphasis of different types of letters is different.
II. We can sent different types of letters on the same subject.
67. Statement: Please check the availability of 2 tickets from Delhi to Lucknow.

## Assumptions:

I. Person checking knows the desired mode of travel.
II. Person checking knows the details of the person travelling.
68. Statement: If you want to increase you writing speed, use 0.7 pen.

Assumptions:
I. There are different types of pens available.
II. The person being told understands what is 0.7 pen.
69. Statement: In order to build more space, extra FSI needs to be bought.

## Assumptions:

I. The person being told does not know the meaning of FSI.
II. More space will reduce the construction cost.
70. Statement: Let there be a sign-board also indicating the directions and instructions. Assumptions:
I. Sign-board can be prepared without using any language.
II. Sign-board is the only effective tool to indicate directions.

